

## Develop A Python Script to Publish and Subscribe To IBM IoT Platform

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Project Name	Smartfarming -IOT Based Smart Farming Application

### Program:

```
import wiotp.sdk.device
```

```
import time
```

```
import os import
```

```
datetime import
```

```
random
```

```
myConfig = {
```

```
    "identity": {
```

```
        "orgId": "nicw4y",
```

```
        "typeId": "NodeMcu",
```

```
        "deviceId": "12376"
```

```
    },
```

```
    "auth": {
```

```
        "token": "harsha@23"
```

```
    }
```

```
}
```

```
client = wiotp.sdk.device.DeviceClient (config=myConfig, logHandlers=None)
```

```
client.connect ()
```

```
def myCommandCallback (cmd) :
```

```

    print ("Message received from IBM IoT Platform: %s" %
cmd.data['command'])
    m=cmd.data['command'] if
(m=="motoron"):
        print ("Motor is switched on")
    elif (m=="motoroff"):
        print ("Motor is switched OFF")
    print (" ")
    while True:
        soil=random.randint
        (0,100)
        temp=random.randint (-20, 125)
        hum=random.randint (0, 100)
        myData={'soil moisture': soil, 'temperature':temp, 'humidity':hum}

        client.publishEvent (eventId="status", msgFormat="json",

data=myData, qos=0 , onPublish=None)
        print ("Published data Successfully: %s", myData)
        time.sleep (2)
        client.commandCallback = myCommandCallback
    client.disconnect ()

```